

07-131395

Figure 1

- #1 Radio station (A)
- #2 Radio station (B)
- 5 #3 Data output
- #4 Data input
- 1-1 Antenna
- 1-2 Antenna sharing device
- 1-3 Reception device
- 10 1-4 Back diffusion device
- 1-5 Demodulation device
- 1-6 Spread Spectrum modulation device
- 1-7 Transmitter
- 1-8 Rake-synthesizer
- 15 1-9 Switch
- 1-10 Comparing device

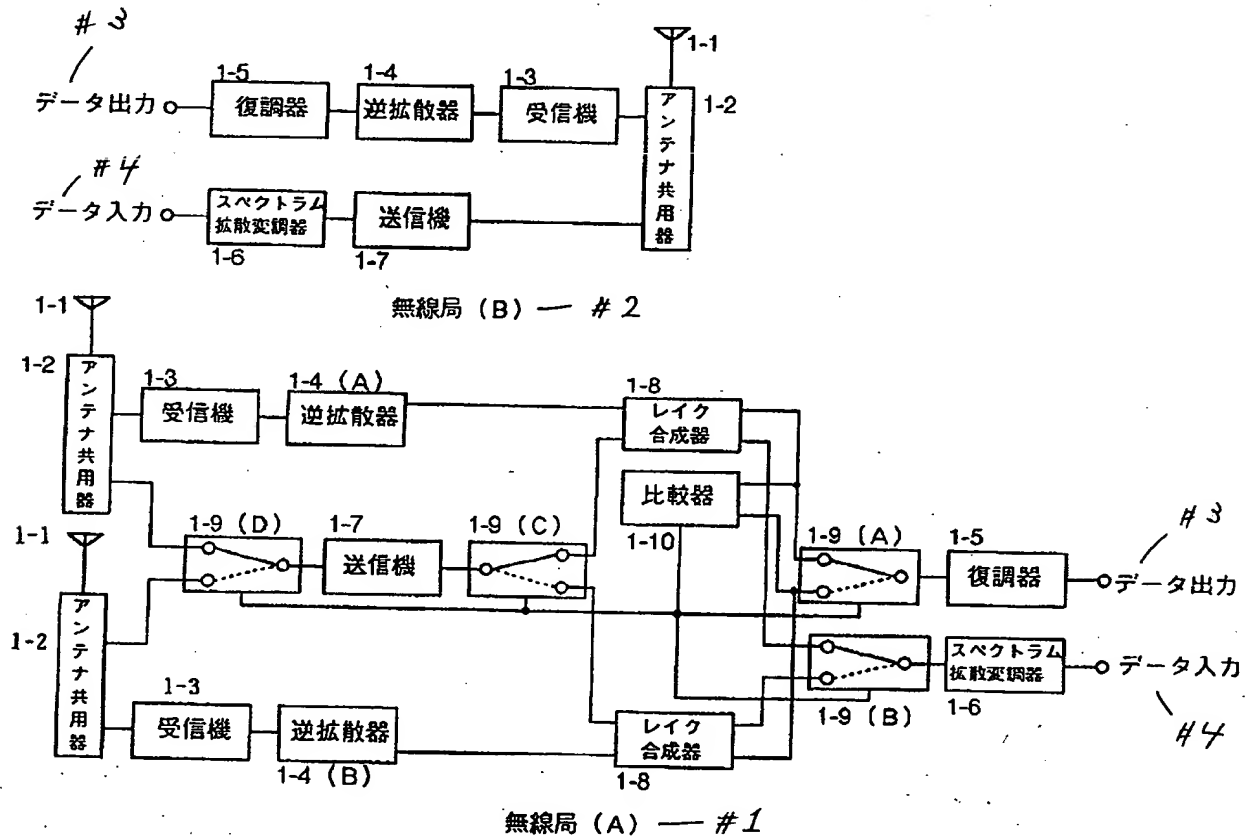
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(6)

- 3-4 逆拡散器
- 3-5 レイク合成器
- 3-6 復調器
- 3-7 スペクトラム拡散変調器
- 3-8 ダイバーシチ合成器
- 4-1 切り替え器
- 4-2 遅延回路
- 4-3 乗算器
- 4-4 タップ係数発生器
- 4-5 加算器

- 5-1 アンテナ
- 5-2 受信機
- 5-3 逆拡散器
- 5-4 レイク合成器
- 5-5 比較器
- 5-6 切り替え器
- 5-7 復調器
- 5-8 スペクトラム拡散変調器
- 5-9 送信機
- 10 5-10 アンテナ共用器

【図1】



本発明の実施例

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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-131395

(43)Date of publication of application : 19.05.1995

(51)Int.Cl.

H04B 7/08  
H04B 1/707

(21)Application number : 05-291507

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<NTT>

(22)Date of filing : 28.10.1993

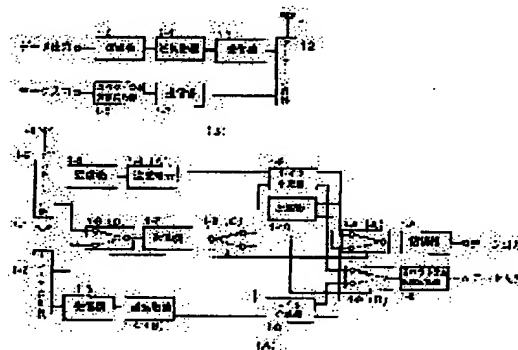
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## (54) ONE-CYCLE TIME DIVISION BIDIRECTIONAL SPREAD SPECTRUM COMMUNICATION SYSTEM

### (57)Abstract:

**PURPOSE:** To simplify the structure of one radio station if the one-cycle time division bidirectional spread spectrum communication is performed by the diversity system.

**CONSTITUTION:** One radio station A is provided with a  $n \geq 2$  branches including an antenna 1-1 and a rake synthesizer 1-8 and a single transmitter 1-7. The other radio station B is provided with a single transmitter 1-7 and a single receiver 1-3. At the time of the reception of the radio station A, the antenna selection receiving diversity is performed and at the time of the transmission of the radio station A, the transmission is performed by using the rake synthesizer and the antenna of the branch selected at the time of the reception. With the radio station A, the antenna reception synthesizing diversity can be performed instead of the antenna selection reception diversity.



### LEGAL STATUS

[Date of request for examination] 21.10.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3223403

[Date of registration] 24.08.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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